

REFERENCES

- Alikhanzadeh-Arani, S., Salavati-Niasari, M., & Almasi-Kashi, M. (2013). Influence of the utilized precursors on the morphology and properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$ superconducting nanostructures. *Physica C: Superconductivity*, 488, 30-34.
- Amado, J., & Sarmago, R. (2015). AC Magnetic Susceptibility and Morphological Development of YBCO HTS Formed from Y: Ba: Cu= 1: 2: 3 and 3: 5: 8. *Journal of Superconductivity and Novel Magnetism*, 28, 3455-3461.
- Archana, P., Jose, R., Vijila, C., & Ramakrishna, S. (2009). Improved electron diffusion coefficient in electrospun TiO_2 nanowires. *The Journal of Physical Chemistry C*, 113(52), 21538-21542.
- Arpaia, R. (2016). $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Nanowires to Study Nanoscale Ordering in High- T_c Superconductors: *Thesis For The Degree of Doctor of Philosophy*, Department of Microtechnology and Nanoscience, Chalmers University of Technology.
- Arpaia, R., Arzeo, M., Nawaz, S., Charpentier, S., Lombardi, F., & Bauch, T. (2014). Ultra low noise $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ nano superconducting quantum interference devices implementing nanowires. *Applied Physics Letters*, 104, 072603.
- Arpaia, R., Ejrnaes, M., Parlato, L., Tafuri, F., Cristiano, R., Golubev, D., Pepe, G. (2015). High-temperature superconducting nanowires for photon detection. *Physica C: Superconductivity and its Applications*, 509, 16-21.
- Arpaia R., Nawaz S., Lombardi F., Bauch T. (2013). Improved nanopatterning for YBCO nanowires approaching the depairing current. *IEEE transactions on applied superconductivity*, 23, 1101505-1101505.
- Attwood, D., & Sakdinawat, A. (2017). X-rays and Extreme Ultraviolet Radiation: Principles and Applications: *books.google.com*. Cambridge university press.
- Bai, D., Du, J., Zhang, T., & He, Y. (2013). A compact high temperature superconducting bandpass filter for integration with a Josephson mixer. *Journal of Applied Physics*, 114, 133906-133911.
- Bai, D., He, X., Zhang, X., Li, H., Zhang, Q., Li, C., & He, Y. (2013). Design of an s-band HTS filter with high power capability. *IEEE transactions on applied superconductivity*, 23, 14-18.
- Baji, A., Mai, Y.-W., Wong, S.-C., Abtahi, M., & Chen, P. (2010). Electrospinning of polymer nanofibers: effects on oriented morphology, structures and tensile properties. *Composites science and technology*, 70, 703-718.
- Baquero, R. (2005). Brief Introduction to Superconductivity. *Section Book*. Departamento de Física, Cinvestav. 69.
- Barnes, P. N., Murray, P. T., Haugan, T., Rogow, R., & Perram, G. P. (2002). In situ creation of nanoparticles from YBCO by pulsed laser deposition. *Physica C: Superconductivity*, 377, 578-584.

- Barnes, P. N., Sumption, M. D., & Rhoads, G. L. (2005). Review of high power density superconducting generators: Present state and prospects for incorporating YBCO windings. *Cryogenics*, 45, 670-686.
- Benzi, P., Bottizzo, E., & Rizzi, N. (2004). Oxygen determination from cell dimensions in YBCO superconductors. *Journal of Crystal Growth*, 269, 625-629.
- Bezryadin, A., Lau, C., & Tinkham, M. (2000). Quantum suppression of superconductivity in ultrathin nanowires. *Nature*, 404, 971-974.
- Bhardwaj, N., & Kundu, S. C. (2010). Electrospinning: a fascinating fiber fabrication technique. *Biotechnology advances*, 28, 325-347.
- Bhattacharjee, S., Poddar, D., Mukherjee, S., Saurabh, S., & Das, S. (2013). Design of microstrip parallel coupled band pass filter for global positioning system. *Journal of Engineering, Computers & Applied Sciences (JEC&AS)*, 2, 28-32.
- Callister Jr, William D, Rethwisch, David G (2012). Fundamentals of materials science and engineering: an integrated approach: *Book*. John Wiley & Sons NY.
- Choi, J., Bhalodia, M., Samph, S., Snowden, P., Yahner, P., & Scoles, K. (1989). Processing and Diagnostics for Thick Film Superconductors Produced from Y-Ba-Cu-O Materials. *Microelectronics International*, 6, 17-22.
- Chowdhury, N. T., & Chowdhury, D. (2014). Design and optimization of an UWB microstrip patch antenna using dielectric substrates Duroid 5880 And FR4. *Thesis for the degree of Bachelor of Science*. Department of Electrical and Electronic Engineering, BRAC University.
- Chung, D.-C. (2000). HTS bandpass filters using parallel coupled microstrip-stepped impedance resonator. *Physica C: Superconductivity*, 341, 2659-2660.
- Croitoru, MD Shanenko, AA Peeters, FM, (2007). Dependence of superconducting properties on the size and shape of a nanoscale superconductor: From nanowire to film. *Physical Review B*, 024511.
- Cui, X. M., Lyoo, W. S., Son, W. K., Park, D. H., Choy, J. H., Lee, T. S., & Park, W. H. (2006). Fabrication of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconducting nanofibres by electrospinning. *Superconductor Science and Technology*, 19, 1264.
- Curtz, N., Koller, E., Zbinden, H., Decroux, M., Antognazza, L., Fischer, Ø., & Gisin, N. (2010). Patterning of ultrathin YBCO nanowires using a new focused-ion-beam process. *Superconductor Science and Technology*, 23, 045015.
- Dadras, S., & Ghavamipour, M. (2016). Investigation of the properties of carbon-base nanostructures doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ high temperature superconductor. *Physica B: Condensed Matter*, 13-17. doi: <https://doi.org/10.1016/j.physb.2015.12.025>
- Davidson, D. B. (2010). Computational electromagnetics for RF and microwave engineering: *Books.google.com*. Cambridge University Press.

- DiNardo, A., Smith, J., & Arams, F. (1971). Superconducting Microstrip High-Q Microwave Resonators. *Journal of Applied Physics*, 42, 186-189.
- Doshi, J., & Reneker, D. H. (1993). Electrospinning process and applications of electrospun fibers. Paper presented at the Industry Applications Society Annual Meeting, 1993., *Conference Record of the 1993 IEEE*.
- Duarte, E. A., Rudawski, N. G., Quintero, P. A., Meisel, M. W., & Nino, J. C. (2014). Electrospinning of superconducting YBCO nanowires. *Superconductor Science and Technology*, 28, 015006.
- Durrell, J. H., & Rutter, N. A. (2008). Importance of low-angle grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ coated conductors. *Superconductor Science and Technology*, 22, 013001.
- Ellsworth, J. (2011). Graphics hot spot: Technology review printing digital heat transfers. *Printwear*, 24, 38-41.
- Emeakaroha, T. M. (2016). Enhancement of Critical Current Density of Yttrium Barium Copper Oxide (YBCO) Thin Films by Introducing Nano dimensional Cerium oxide (CeO_2) Defects. *Thesis for the degree of Master of Science*. Department: Physics, North Carolina Agricultural and Technical State University.
- Eom, C., Marshall, A., Suzuki, Y., Geballe, T., Boyer, B., Pease, R., Phillips, J. M. (1992). Growth mechanisms and properties of 90° grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films. *Physical Review B*, 46, 11902.
- Flanner, M. S. (2011). Microwave Filter Design: Coupled Line Filter. *Thesis for Master of Science*. California State University, Chico.
- Frenot, A., & Chronakis, I. S. (2003). Polymer nanofibers assembled by electrospinning. *Current opinion in colloid & interface science*, 8, 64-75.
- Garg, K., & Bowlin, G. L. (2011). Electrospinning jets and nanofibrous structures. *Biomicrofluidics*, 5, 013403.
- Ghosh, A., Thomas, T. A., Cudak, M. C., Ratasuk, R., Moorut, P., Vook, F. W., Nie, S. (2014). Millimeter-wave enhanced local area systems: A high-data-rate approach for future wireless networks. *IEEE Journal on Selected Areas in Communications*, 32(6), 1152-1163. doi: 10.1109/JSAC.2014.2328111
- Goldstein, J., Newbury, D. E., Echlin, P., Joy, D. C., Romig Jr, A. D., Lyman, C. E., Lifshin, E. (2012). Scanning electron microscopy and X-ray microanalysis: a text for biologists, materials scientists, and geologists: *Books.google.com*. Springer Science & Business Media.
- Golubev, D., Lombardi, F., & Bauch, T. (2014). Effect of heating on critical current of YBCO nanowires. *Physica C: Superconductivity and its Applications*, 506, 174-177.

- Greenberg, Y., Lumelsky, Y., Silverstein, M., & Zussman, E. (2008). YBCO nanofibers synthesized by electrospinning a solution of poly (acrylic acid) and metal nitrates. *Journal of Materials Science*, 43, 1664-1668.
- Gunjal, S. R., Pawase, R., & Labade, R. (2016). Design And Implementation Of Microstrip Bandpass Filter Using Parallel Coupled Line For ISM Band. *International Journal of Advance Research and Innovative Ideas in Education*, 2, 3056 - 3036.
- Gupta, A. G. V. (2015). Design of bpf using interdigital bandpass filter on center frequency 3ghz. *International journal of research review in engineering science & technology*, 4, 135 - 139.
- Harilal, M., Krishnan, S. G., Vijayan, B. L., Reddy, M. V., Adams, S., Barron, A. R., Jose, R. (2017). Continuous nanobelts of nickel oxide–cobalt oxide hybrid with improved capacitive charge storage properties. *Materials & Design*, 122, 376-384.
- Hein, M. A. (2011). Microwave properties of superconductors. *Microwave Superconductivity. Book section.* (pp. 21-53): Springer.
- Herbstritt, F., Kemen, T., Marx, A., & Gross, R. (2002). Ultraviolet light assisted oxygenation process for submicron $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin film devices. *Journal of Applied Physics*, 91, 5411-5418.
- Higuchi, T., Sakai, N., Murakami, M., & Hashimoto, M. (1995). Critical Current Density Estimation of YBCO by Trapped Field Measurement Using a Hall Probe *Advances in Superconductivity. Book section. VII* (pp. 423-426): Springer.
- Howe, B. A. (2014). Crystal structure and superconductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Thesis for Master of Science. Physics Department, Minnesota State University.
- Huebener, R. P. (2015). The Big Surprise: High-Temperature Superconductivity *Conductors, Semiconductors, Superconductors. Book section.* (pp. 131-144): Springer.
- Izumi, T., & Shiohara, Y. (2010). R&D of coated conductors for applications in Japan. *Physica C: Superconductivity*, 470, 967-970.
- Jin Yu, Yang Dayong, Kang Dongyang, Jiang Xingyu (2009). Fabrication of necklace-like structures via electrospinning. *Langmuir*, 26, 1186-1190.
- Jing, D., Shao, K., Cao, C., Zhang, L., Jiao, G., Zhang, Z., Wang, X. (1994). 10 GHz bandpass YBCO superconducting microstrip filter. *Superconductor Science and Technology*, 7, 792-799.
- Khalil, K. A., Sherif, E.-S. M., Nabawy, A., Abdo, H. S., Marzouk, W. W., & Alharbi, H. F. (2016). Titanium Carbide Nanofibers-Reinforced Aluminum Compacts, a New Strategy to Enhance Mechanical Properties. *Materials*, 9, 399-402.
- Klobes, P., Meyer, K., & Munro, R. G. (2006). Porosity and specific surface area measurements for solid materials. *Book. Special Publication 960-17. Materials Science and Engineering Laboratory, National Institute of Standards and Technology.*

- Kolodziej, C. M., & Maynard, H. D. (2012). Electron-beam lithography for patterning biomolecules at the micron and nanometer scale. *Chemistry of materials*, 24, 774-780.
- Kullberg, M., Lanagan, M., Wu, W., & Poeppel, R. (1991). A sol-gel method for preparing oriented $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ films on silver substrates. *Superconductor Science and Technology*, 4, 337-341.
- Lancaster, M. J., Huang, F., Porch, A., Avenhaus, B., Hong, J.-S., & Hung, D. (1996). Miniature superconducting filters. *IEEE transactions on microwave theory and techniques*, 44, 1339-1346.
- Jing Yu Lao, Jian Guo Wen, and Zhi Feng Ren (2002). Hierarchical ZnO nanostructures. *Nano Letters*, 2, 1287-1291.
- Lawrence, K. L. (2012). ANSYS Tutorial: *Book. Release 14*: SDC publications.
- Lee, H.-H. (2015). Finite element simulations with ANSYS workbench 16: *Book*. SDC publications.
- Lee, J. S. (2009). Microwave resonator filters for advanced wireless systems. *Thesis for degree of Doctor of Philosophy*. Electrical Engineering, University of Michigan.
- Lee, J. S., Choi, K. H., Ghim, H. D., Kim, S. S., Chun, D. H., Kim, H. Y., & Lyoo, W. S. (2004). Role of molecular weight of atactic poly (vinyl alcohol)(PVA) in the structure and properties of PVA nanofabric prepared by electrospinning. *Journal of Applied Polymer Science*, 93, 1638-1646.
- Lee, K., Mazare, A., & Schmuki, P. (2014). One-dimensional titanium dioxide nanomaterials: nanotubes. *Chemical Reviews*, 114, 9385-9454.
- Li, D., & Xia, Y. (2004). Electrospinning of nanofibers: reinventing the wheel? *Advanced materials*, 16, 1151-1170.
- Liu, A., Yu, A., & Zhang, Q. (2006). Broad-band band-pass and band-stop filters with sharp cut-off frequencies based on series CPW stubs. *Paper presented at the Microwave Symposium Digest*, 2006. IEEE MTT-S International.
- Liu, H., Rao, L., Xu, Y., Wen, P., Ren, B., Guan, X., Ma, J. (2017). Design of High-Temperature Superconducting Wideband Bandpass Filter With Narrow-Band Notch Resonators for Radio Telescope Application. *IEEE transactions on applied superconductivity*, 27, 1-4.
- Lu, X., Wei, B., Xu, Z., Cao, B., Guo, X., Zhang, X., Song, F. (2015). Superconducting Ultra-Wideband (UWB) Bandpass Filter Design Based on Quintuple/Quadruple/Triple-Mode Resonator. *IEEE transactions on microwave theory and techniques*, 63(4), 1281-1293. doi: 10.1109/TMTT.2015.2402152
- Lu, X., Wei, B., Xu, Z., Cao, B., Guo, X., Zhang, X., Song, F. (2015). Superconducting Ultra-Wideband (UWB) Bandpass Filter Design Based on Quintuple/Quadruple/Triple-Mode Resonator. *IEEE transactions on microwave theory and techniques*, 63, 1281-1293.

- Luo, Q.-w., Li, Y.-n., Li, F.-h., & Fan, Z.-g. (2014). Preparation of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconducting thick film on Ni-W tapes via electrophoretic deposition. *Transactions of Nonferrous Metals Society of China*, 24, 120-125.
- Ma, B., Koritala, R., Fisher, B., Uprety, K., Baurceanu, R., Dorris, S., Balachandran, U. (2004). High critical current density of YBCO coated conductors fabricated by inclined substrate deposition. *Physica C: Superconductivity*, 403, 183-190.
- Mansour, R. R. (2002). Microwave superconductivity. *Microwave Theory and Techniques, IEEE Transactions on*, 50, 750-759.
- Marimuthu, J. (2004). Design of Microwave Bandpass Filter with Novel Parallel Coupled Grooved Microstrip Structure. *Master's Thesis, unpublished dissertation, Universiti Teknologi Malaysia*.
- Mohajeri, R., Opata, Y. A., Wulff, A. C., Grivel, J.-C., & Fardmanesh, M. (2016). All Metal Organic Deposited High-Tc Superconducting Transition Edge Bolometer on Yttria-Stabilized Zirconia Substrate. *Journal of Superconductivity and Novel Magnetism*, 1-6.
- Montemurro, D., Massarotti, D., Lucignano, P., Roddaro, S., Stornaiuolo, D., Ercolani, D., Tafuri, F. (2015). Towards a Hybrid High Critical Temperature Superconductor Junction With a Semiconducting InAs Nanowire Barrier. *Journal of Superconductivity and Novel Magnetism*, 28, 3429-3437.
- Mukesh Kumar, S. K. (2014). Designing of Half Wavelength Parallel- Edge Coupled Line Bandpass Filter Using HFSS. *International Journal of Advanced Research in Computer Science and Software Engineering*, 4, 876-882.
- Muralidhar, M., Sakai, N., Machi, T., Hirabayashi, I., & Tanaka, S. (2007). Potentials of RE- $\text{YBa}_2\text{Cu}_3\text{O}_6$ in the silver base technology. *Physica C: Superconductivity and its Applications*, 463, 314-319.
- Nawaz, S., Arpaia, R., Bauch, T., & Lombardi, F. (2013). Approaching the theoretical depairing current in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ nanowires. *Physica C: Superconductivity*, 495, 33-38.
- Newman, N., & Lyons, W. G. (1993). High-temperature superconducting microwave devices: fundamental issues in materials, physics, and engineering. *Journal of Superconductivity*, 6, 119-160.
- Nirmala, R., Navamathavan, R., Park, S.-J., & Kim, H. Y. (2014). Recent progress on the fabrication of ultrafine polyamide-6 based nanofibers via electrospinning: a topical review. *Nano-Micro Letters*, 6, 89-107.
- Nisenoff, M. (2011). Microwave superconductivity part 1: History, properties and early applications. *Paper presented at the Microwave Symposium Digest (MTT)*, 2011 IEEE MTT-S International.
- Nur-Akasyah, J., Nur-Shamimie, N., & Abd-Shukor, R. (2017). Effect of CdTe Addition on the Electrical Properties and AC Susceptibility of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Superconductor. *Journal of Superconductivity and Novel Magnetism*, 1-5.

- Pal, Shreyasi Maiti, Soumen Maiti, Uday Narayan Chattopadhyay, Kalyan Kumar (2014). Scalable approach for the realization of garland shaped 3D assembly of CuTCNQ nanorods: an efficient electron emitter. *Journal of Materials Chemistry C*, 2, 4005-4011.
- Papari, G., Carillo, F., Stornaiuolo, D., Longobardi, L., Beltram, F., & Tafuri, F. (2012). High critical current density and scaling of phase-slip processes in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ nanowires. *Superconductor Science and Technology*, 25, 035011.
- Paranthaman, M. P., & Izumi, T. (2004). High-performance YBCO-coated superconductor wires. *MRS bulletin*, 29, 533-541.
- Park, J. Y., Lee, I. H., & Bea, G. N. (2008). Optimization of the electrospinning conditions for preparation of nanofibers from polyvinylacetate (PVAc) in ethanol solvent. *Journal of Industrial and Engineering Chemistry*, 14, 707-713.
- Pashkin, A., Porer, M., Beyer, M., Kim, K. W., Dubroka, A., Bernhard, C., Erb, A. (2010). Femtosecond response of quasiparticles and phonons in superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ studied by wideband terahertz spectroscopy. *Physical review letters*, 105, 067001.
- Poole, C. K., Farach, H. A., & Creswick, R. J. (1999). *Handbook of superconductivity*: Elsevier.
- Ramaseshan, R., Sundarrajan, S., Jose, R., & Ramakrishna, S. (2007). Nanostructured ceramics by electrospinning. *Journal of Applied Physics*, 102, 111101-111109.
- Reneker, D. H., & Yarin, A. L. (2008). Electrospinning jets and polymer nanofibers. *Polymer*, 49, 2387-2425.
- Ribadeneira-Ramírez, J., Martínez, G., Gomez-Barquero, D., & Cardona, N. (2016). Interference analysis between digital terrestrial television (DTT) and 4G LTE mobile networks in the digital dividend bands. *IEEE Transactions on Broadcasting*, 62, 24-34.
- Rius Suñé, G., Pérez Murano, F., & Bausells Roige, J. (2008). Electron beam lithography for nanofabrication: *Book*. Facultat de Ciències, Departament de Física. Bellaterra : Universitat Autònoma de Barcelona, 2008.
- Romanenko, A., & Grassellino, A. (2013). Dependence of the microwave surface resistance of superconducting niobium on the magnitude of the rf field. *Applied Physics Letters*, 102, 252603.
- Salama, A., El-Hofy, M., Rammah, Y., & Elkhatib, M. (2015). Effect of magnetic and nonmagnetic nano metal oxides doping on the critical temperature of a YBCO superconductor. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 6, 045013.
- Salama, K., Selvamanickam, V., Gao, L., & Sun, K. (1989). High current density in bulk $\text{YBa}_2\text{Cu}_3\text{O}_x$ superconductor. *Applied Physics Letters*, 54, 2352-2354.

- Sawicka, K. M., & Gouma, P. (2006). Electrospun composite nanofibers for functional applications. *Journal of Nanoparticle Research*, 8, 769-781.
- Schlosser, R., Schmidt, H., Leghissa, M., & Meinert, M. (2003). Development of high-temperature superconducting transformers for railway applications. *Applied Superconductivity, IEEE Transactions on*, 13, 2325-2330.
- Shang, Z., Guo, X., Cao, B., Zhang, X., Wei, B., Heng, Y., Li, Q. (2013). Design and performance of an HTS wideband microstrip bandpass filter at X-band. *Microwave and Optical Technology Letters*, 55, 1027-1029.
- Sharma, G., Navin, P. S., Bhati, Y., & Walia, Y. (2013). Half-wavelength parallel edge coupled filter simulation using Matlab. *International Journal of Innovative Research in Computer and Communication Engineering*, 1, 248-253.
- Shen, Z., Hu, Y., Fei, L., Li, K., Chen, W., Gu, H., & Wang, Y. (2015). Photocatalytically Active $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Nanoparticles Synthesized via a Soft Chemical Route. *Journal of Nanomaterials*. Hindawi Publishing Corporation. 2015, 1-5.
- Shen, Z., Wang, Y., Chen, W., Fei, L., Li, K., Chan, H. L. W., & Bing, L. (2013). Electrospinning preparation and high-temperature superconductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ nanotubes. *Journal of Materials Science*, 48, 3985-3990.
- Shen, Z. Y. (1994). High-temperature superconducting microwave circuits. *Google Books*. Artech House microwave library. 272.
- Shivhare, J. (2008). Design and development of low loss microstrip band pass filters by using YBCO-high temperature superconducting thin film. *International Conference on Recent Advances in Microwave Theory and Applications, Microwave 2008.*, IEEE. 382-383.
- Shter, G., Schwartzman, A., & Grader, G. (1995). Interrelation of calcination temperature, surface area and densification of oxalate-derived YBCO. *Applied superconductivity*, 3, 543-550.
- Shter, G. E., & Grader, G. S. (1994). YBCO oxalate coprecipitation in alcoholic solutions. *Journal of the American Ceramic Society*, 77, 1436-1440.
- Sigmund, W., Yuh, J., Park, H., Maneeratana, V., Pyrgiotakis, G., Daga, A., . . . Nino, J. C. (2006). Processing and structure relationships in electrospinning of ceramic fiber systems. *Journal of the American Ceramic Society*, 89, 395-407.
- Sing, K. S. (1985). Reporting physisorption data for gas/solid systems with special reference to the determination of surface area and porosity (Recommendations 1984). *Pure and applied chemistry*, 57, 603-619.
- Singh, M., Wang, J., & Sun, Y. (2012). Superconductivity in nanoscale systems: *Section Book*. Center for Nanoscale Science & Department of Physics, The Pennsylvania State University, University Park, USA. INTECH Open Access Publisher.

- Sun, L. P. (2011). Dual-Mode Dual-Band Microstrip Bandpass Filter. *A project report for the award of Bachelor of Engineering*. Faculty of Engineering and Science, Universiti Tunku Abdul Rahman.
- Suzuki, M. (2012). Comprehensive study of lanthanum aluminate high-dielectric-constant gate oxides for advanced CMOS devices. *Materials*, 5, 443-477.
- Tan, A. W., Pingguan-Murphy, B., Ahmad, R., & Akbar, S. A. (2013). Advances in fabrication of TiO₂ nanofiber/nanowire arrays toward the cellular response in biomedical implantations: a review. *Journal of Materials Science*, 48, 8337-8353.
- Tekmen, C., Suslu, A., & Cocen, U. (2008). Titania nanofibers prepared by electrospinning. *Materials Letters*, 62, 4470-4472.
- Thommes, M., Kaneko, K., Neimark, A. V., Olivier, J. P., Rodriguez-Reinoso, F., Rouquerol, J., & Sing, K. S. (2015). Physisorption of gases, with special reference to the evaluation of surface area and pore size distribution (IUPAC Technical Report). *Pure and applied chemistry*, 87, 1051-1069.
- Thompson, M., Ellison, S. L., & Wood, R. (2006). The international harmonized protocol for the proficiency testing of analytical chemistry laboratories (IUPAC Technical Report). *Pure and applied chemistry*, 78, 145-196.
- Toossi, A., Moghadas, H., Daneshmand, M., & Sameoto, D. (2015). Bonding PMMA microfluidics using commercial microwave ovens. *Journal of Micromechanics and Microengineering*, 25, 085008.
- Ushakov, S. V., & Navrotsky, A. (2014). Direct Measurement of Fusion Enthalpy of LaAlO₃ and Comparison of Energetics of Melt, Glass, and Amorphous Thin Films. *Journal of the American Ceramic Society*, 97, 1589-1594.
- Uslu, I., Kemal Ozturk, M., Levent Aksu, M., & Gokmese, F. (2010). Fabrication and characterization of boron supported YBCO superconductive nanofibers by electrospinning. *Current Nanoscience*, 6, 408-412.
- Valizadeh, A., & Farkhani, S. M. (2014). Electrospinning and electrospun nanofibres. *Nanobiotechnology, IET*, 8, 83-92.
- Van Delft Dirk. (2012). History and significance of the discovery of superconductivity by Kamerlingh Onnes in 1911. *Physica C: Superconductivity*, 479, 30-35.
- Wali, Q. (2016). Nanostructured tin oxide materials as photoanode for dye sensitized solar cells. *Thesis for degree of doctor pholosiphy*. Faculty of Industrial Scince & Technology, Universiti malaysia pahang.
- Wali, Q., Fakharuddin, A., Ahmed, I., Ab Rahim, M. H., Ismail, J., & Jose, R. (2014). Multiporous nanofibers of SnO₂ by electrospinning for high efficiency dye-sensitized solar cells. *Journal of Materials Chemistry A*, 2, 17427-17434.
- Walliman, D. C. (2010). Fabrication and measurement of superconducting nanowires. *Thesis for degree of doctor pholosiphy*. College of Engineering & Physical Sciences, University of Birmingham.

- Wang, L., Hsieh, C.-H., & Chang, C.-C. (2005). Cross-coupled narrow-band filter for the frequency range of 2.1 GHz using YBCO resonators with artificial magnetic pinning lattices. *IEEE transactions on applied superconductivity*, 15, 1040-1043.
- Wei, X., Peng, E., Xie, Y., Xue, J., Wang, J., & Ding, J. (2017). Extrusion printing of a designed three-dimensional $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconductor with milled precursor powder. *Journal of Materials Chemistry C*, 5, 3382-3389
- Weigel, R., Valenzuela, A., & Russer, P. (1993). YBCO superconducting microwave components. *Applied Superconductivity*, 1, 1595-1604.
- Weinstock, H., & Nisenoff, M. (2012). Microwave superconductivity. *Books.google.com* (Vol. 375): Springer Science & Business Media.
- Wijeyesekera, D., Ho, M., Bai, X., & Bakar, I. (2016). Strength and Stiffness Development in Soft Soils: A FESEM aided Soil Microstructure Viewpoint. *Paper presented at the IOP Conference Series: Materials Science and Engineering*.
- Wu, H., Pan, W., Lin, D., & Li, H. (2012). Electrospinning of ceramic nanofibers: fabrication, assembly and applications. *Journal of Advanced Ceramics*, 1, 2-23.
- Xu, K., & Heath, J. R. (2008). Long, highly-ordered high-temperature superconductor nanowire arrays. *Nano Letters*, 8, 3845-3849.
- Yao, P.-J., Wang, J., Qiao, Q., & Du, H.-y. (2015). Direct fabrication of $\text{La}_{0.7}\text{Sr}_{0.3}\text{FeO}_3$ nanofibers with tunable hollow structures by electrospinning and their gas sensing properties. *Journal of Materials Science*, 50, 1338-1349.
- Zaleski, T., & Kopeć, T. (2006). Possible origin of 60– K plateau in the $\text{YBa}_2\text{Cu}_3\text{O}_{6+y}$ phase diagram. *Physical Review B*, 74, 014504-014509.
- Zayer, M. Q. (2016). The improvement of the physical properties of indium tin oxide thin film through annealing process. *Thesis for the degree of Doctor of Philosophy*. Faculty of Industriail Scince & Technology, Universiti malaysia pahang.
- Zhan, S., Chen, D., Jiao, X., & Tao, C. (2006). Long TiO_2 hollow fibers with mesoporous walls: sol-gel combined electrospun fabrication and photocatalytic properties. *The Journal of Physical Chemistry B*, 110, 11199-11204.
- Zhang, G., Lu, X., Zhang, T., Qu, J., Wang, W., Li, X., & Yu, S. (2006). Microstructure and superconductivity of highly ordered $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ nanowire arrays. *Nanotechnology*, 17, 4252-4259.
- Zhang, T., Du, J., Guo, Y. J., & Sun, X.-W. (2012). On-chip integration of HTS bandpass and lowpass filters with Josephson mixer. *Electronics letters*, 48, 729-731.
- Zhang, T., Du, J., Guo, Y. J., & Sun, X. (2013). A compact HTS bandpass microstrip filter with novel coupling structure for on-chip integration. *Physica C: Superconductivity*, 495, 69-73.

- Zhang, T., Yang, K., Zhu, H., Zhou, L., Jiang, M., Dang, W., Hou, F. (2015). Miniaturized HTS linear phase filter based on neighboring CQ units sharing resonators. *Superconductor Science and Technology*, 28, 105012-105016.
- Zhang, T., Zhou, L., Yang, K., Luo, C., Jiang, M., Dang, W., & Ren, X. (2015). The research of parallel-coupled linear-phase superconducting filter. *Physica C: Superconductivity and its Applications*, 519, 153-158.
- Zhang, Y. (2006). Modeling and design of microwave-millimeterwave filters and multiplexers. *Thesis for the degree of Doctor of Philosophy*. Faculty of the Graduate School, University of Maryland, College Park.
- Zhao, Z., Chen, L., Yang, Q., Huang, Y., Chen, G., Tang, R., Wang, L. (1987). Superconductivity above liquid-nitrogen temperature in Ba-Y-Cu oxides. *Kexue Tongbao*, 32, 661-664.
- Zueger, H. (1998). 630kVA high temperature superconducting transformer. *Cryogenics*, 38, 1169-1172.